

States & Changes

Chemistry

The state changes, and why temperature plateaus during them.

The six transitions.

Change	From → to	Energy
Melting	Solid → liquid	Absorbed
Freezing	Liquid → solid	Released
Vaporisation	Liquid → gas	Absorbed
Condensation	Gas → liquid	Released
Sublimation	Solid → gas	Absorbed
Deposition	Gas → solid	Released

The plateau on a heating curve is latent heat: energy is overcoming intermolecular forces, not increasing kinetic energy.